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Neuropathology in Bulgaria and Hungary. Vest. AMN SSSR 15 no. 5:67-71 '60. (MIRA 13:9)

(BULGARIA—NERVOUS SYSTEM—DISEASES)

(HUNGARY—NERVOUS SYSTEM—DISEASES)

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(SENSES AND SENSATION) (SNIAKIN, P.G.)

New concepts in the mechanisms underlaying disorders of merebral circulation, Klin.med. 38 no.9812-18 S *60. (MIRA 13211)

1. Iz Instituta newrologii ANN SSSR. (BRAIN-BLOOD SUPPLY)

SHMIDT, Ye.V.; ALEKSANDROVA, L.I.; GALUZO, N.V.; SUKHOVSKAYA, N.A.

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l. Institut nevrologii (dir. - prof. N.V. Konovalov) AMN SSSR, Moskva.

(BRAIN—BLOOD VESSELS) (SKIN-INNERVATION)

SHMIDT, Ye.V.; ALEKSANDROVA, L.I. (Moskva)

Neurology in the Hungarian People's Republic and in the Bulgarian People's Republic. Zhur.nevr.i psikh 60 no.8:1049-1053 '60.

(MIRA 13:9)

(HUNGARY—NEUROLOGY)

(BULGARIA—NEUROLOGY)

KONOVALOVA-N.V.; SHMIDT, Ye.V.

Status and problems of scientific research in the field of vascular lesions of the nervous system and methods for their prevention. Znur. nerv. i psikh. 60 no. 12:1557-1569 '60. (MIRA 14:4)

1. Institut nevrologii AMN SSSR, Moskva. (BRAIN—BLOOD SUPPLY)

SHMIDT, Ye.V.; YARULLIN, Kh.Kh.

"Vascular reactivity in diseases of the central nervous system" by J. Poilici. Reviewed by E.V. Shmidt, Kh.Kh. IArullin.
Zhur. nerv. i psikh. 60 no. 12:1680-1682 '60. (MIRA 14:4)
(CARDIOVASCULAR SYSTEM) (NERVOUS SYSTEM—DISEASES)
(POILICI, J.)

SHAIDT, Ye.V., red.; TKACHEV, R.A., red.; KUKUYEV, L.A., red.;
MIRONOVA, A.M., tekhn. red.

[Problems in the clinical aspects and pathophysiology of aphasia] Institut nevrologii. Voprosy kliniki i patofiziologii afazii. Pod red. E.V.Shmidta i R.A.Tkacheva. 1.0-skva, Medgiz, 1961. 175 p. (MIRA 15:10)

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(APHASIA)

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Thrombosis of the extracranial and intracranial sections of the internal carotid artery. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:54-55 61 (MIRA 16:11)

1. Institut nevrologii (direktor - deystvitel'nyy chlen AMN SSSR prof. N.V. Konovalov) AMN SSSR, Moskva.

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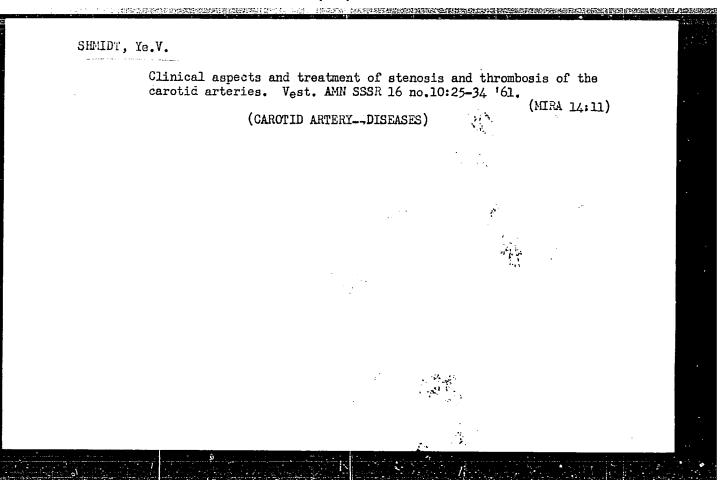
SHMIDT, Ye.V., prof. (Moskva)

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Vrach.delo no.6:153-154 Je '61. (MIRA 15:1)

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(HEPATOLENTICULAR DEGENERATION) (KONOVALOV, N.V.)

Award of the Lenin Prize for the monograph of Professor N.V. Konovalov.
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(LENIN PRIZES) (HEPATOLENTICULAR DEGENERATION)



SHMIDT, Ye.V., inzh.

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(Electric relays) (Electric lighting)

SHMIDT, Ye.V.

Some problems in clinical aspects and treatment of occluding lesions of the extracranial segment of the carotid arteries. Zhur. nevr. i psikh. 62 no.1:15-23 '62. (MIRA 15:4)

1. Institut nevrologii (dir. - prof. N.V.Konovalov) AMN SSSR, Moskva. (CAROTID ARTERY--DISEASES)

SHMIDT, Ye.V.; VERESHCHAGIN, N.V.; KOLTOVER, A.N.; BRAGINA, L.K.

Role of the pathological sinuosity of the carotid and vertebral arteries in disorders of cerebral ciruclation. Zhur.nevr.i psikh. 62 no.821149-1159 Ag '62. (MIRA 15:12)

1. Institut nevrologii (dir. - prof. N.V.Konovalov) AMN SSSR, Moskva.

(CEREBROVASCULAR DISEASE) (VERTEBRAL ARTERY—DISEASES)
(CAROTID ARTERY—DISEASES)

SHMIDT, YEvgeniy Vladimirovich; VEYN, A.M., red.

[Stenosis and thrombosis of the carotid arteries and disorders of the cerebral blood circulation] Stenoz i tromboz sonnykh arterii i narusheniia mozgovogo krovoobrashcheniia. Moskva, Medgiz, 1963. 319 p. (MIRA 17:4)

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SHMIDT, Ye.V.; D HIBLADZE, D.N.; LYUDKOVSKAYA, I.G.

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1. Institut nevrologii (direktor - prof. N.V. Koncvalov) AMN SSSR, Moskva.

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549810004-9"

LIMAR', T.F.; UVAROVA, K.A.; BULACHEVA, A.F.; SGYVUBM, A.S.; BEDNOVA, I.N.; MAKOVSKAYA, E.B.; SOLOMEINA, G.I.; LOLMATOV, Yu.D.; BOBYPENKO, Yu. Ya.; KOGAN, F.I.; KOVALENKO, P.N.; IVANOVA, Z.I.; FOKIN, A.V.; KOMAHOV, V.A.; SOROCHKIN, I.N.; LAVYDOVA, S.M.; RAVDEL', A.A.; GOHELIK, G.N., DAUKSPAS, V.K. [Dauksas, V.]; PIKUNAYTE, L.A. [Pikunaite, L.], SHABIPOV, A.Kh.; SHABALIN, I.I.; STEPNOVA, G.M.; SHMILT, Ye.V., DUHOV, S.S., STRUKOV, O.G.

Scientific research papers of the members of the All-Union Mendeleev Chemical Society (trief information). Zhur. VHKO 10 no.3:350-360 '65. (MIRA 18:8)

1. Constskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv (for Limar', Uravora, Pulicheva). 2. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut (for Shubin, Fednova, Makovskaya, Solomeina). 3. Chelyabinskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta mineral'nykh pigmentov (Dolmatov, Bobyrenko). 4. Nostovskiy-na-Donu universitet (for Kogan, Kovalenko, Ivanova). 5. Leningradskiy tekhnologicheskiy institut imeni Lensoveta i Institut mineral'nykh pigmentov (for Ravdel', Gorelik). 6. Vil'nyusskiy gosudarstvennyv universitet imeni Kpsukasa (for Daukshas, Fikunayte). Nauchno-issledovatel'skiy institut neftekhimicheskikh proizvodstv (for Sharpipv, Shabalin). 8. Tomskiy politekhnicheskiy institut imeni Kirova (for Stepnova, Shmidt).

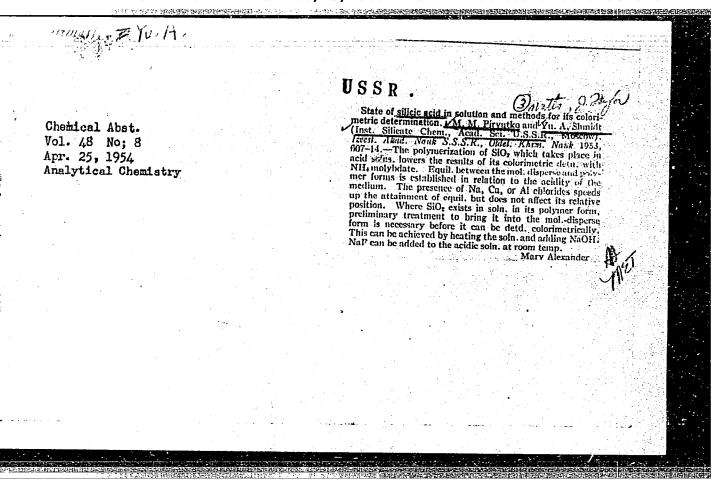
Yu. A. Shmidt			
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	USSR.		
	State of silicic sold in solution and methometric determination. M., M., Firyutko Shmidt. Bull. Acad. Sci. U.S.S.R., D. 1853, 546-50 (Engl. translation),—See G.A.	ds for its colori- 1 and Yu. A. 100. Chem. 34 48, 43930.	
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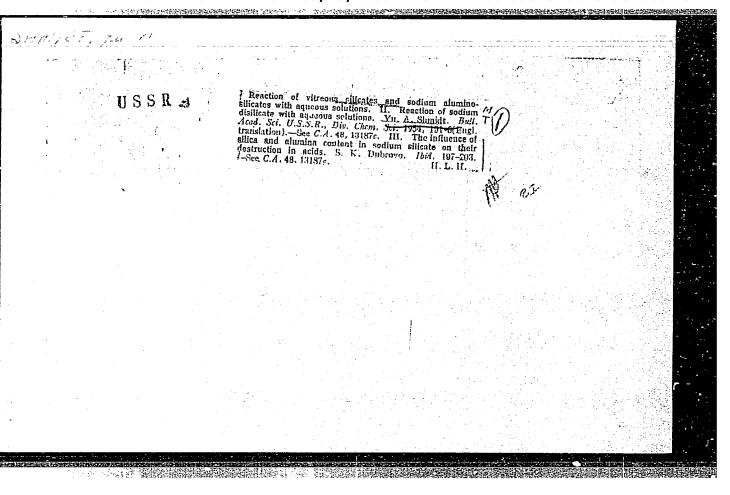
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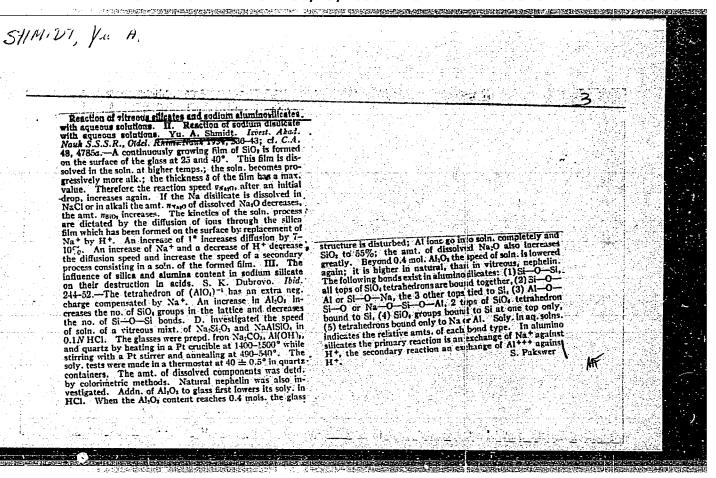
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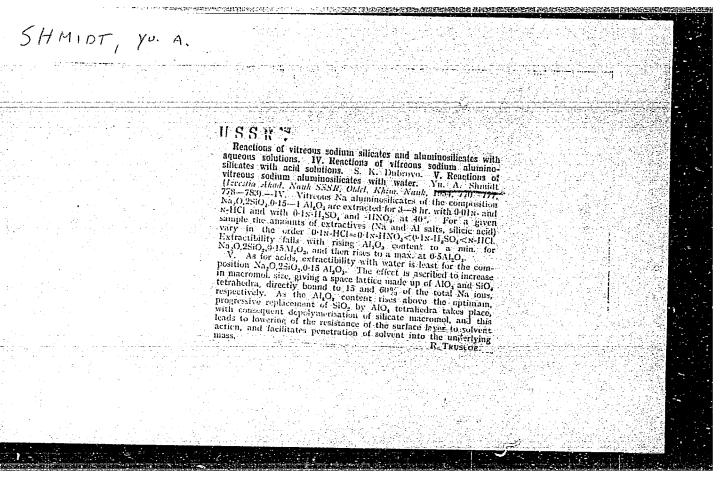
Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Glass, Clay Products, Refractories, and Enameled Metals

Me









USSR/Chemical

Glass

Card

1/1

Authors

Dubrovo, S. K. and Shmidt, Yu. A.

Title

Chemical stability of glassy silicates and sodium alumino-silicates

Periodical

Stek. i Ker., No. 6, 3 - 7, June 1954

Abstract

The chemical stability of a tri-component aluminum-silicate system which has great practical importance for the synthesis of various aluminum-silicate materials (heat resistant glass, glazings etc.) is explained. The rate of destruction of glassy sodium aluminum-silicates depends mainly upon the state of the silicon dioxide contained in the glass. Silicon dioxide determines the structure and strength of the surface protective layer, by the hydrogen ion concentration of the active solution and by the degree of electrolytic dissociation of the

solts formed in the solution. Table, graphs.

Institution:

Submitted

Shmidt

USSR/Chemical Technology. Chemical Froducts and their Application. J-12 Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27621.

Author : Yu. A. Shmidt.

Inst Title

: Remarks about Some Works Concerning Chemical Stability of Glass.

Orig Pub: vSb: Stroyeniye stekla. M.-L., AN SSSR, 1955, 319-321.

Abstract: Basing on experimental data of the author and of S.K. Dubrovo, it is proved that the assertion of A.F. Zak concerning the transition of exides into solution in certain ratios at the interaction of sodium-silica glasses with aqueous solutions is wrong. The proportion of components passing into the solution at the interaction of sodium-silica glasses with aqueous solutions is not constant, but depends on the temperature, the composition of the glass and the composition of the solution. Further, in the author's opinion, the assertion of Yu.A. Gestev that the

Card: 1/2

-20..

USSR/Chemical Technology. Chemical Products and their Application. Glass. Ceramics. Building Materials.

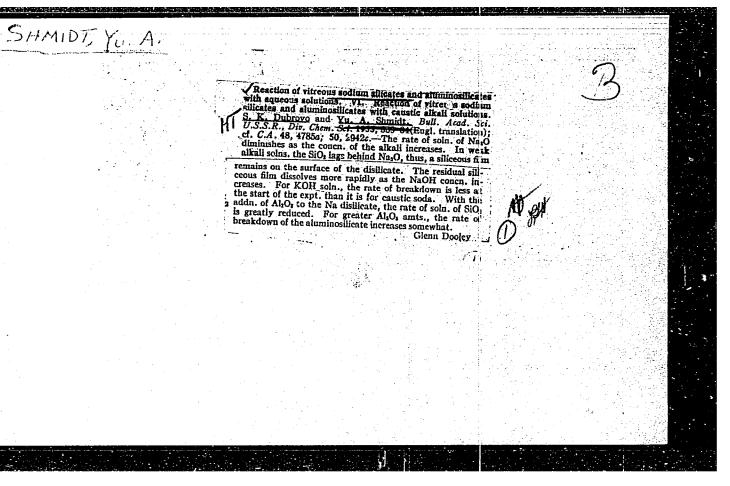
J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27621.

silica film on the surface of alkali-silica glasses does not practically possess any protective properties and that the stability of glass is a function of the composition of the glass and the film, is not correct. The author points out that the properties of the silica film are closely connected with the composition and the structure of the original glass. Even in case of an identical composition of the film, its properties can be different depending on the degree of polymerization of silica in the original glass. See also RZhKhim, 1956, 72378, 75673, and 1957, 1567.

Card : 2/2

-21-



DUBROVO, S.K.; SHMIDT, Yu.A.

Interaction of vitreous sodium silicates and aluminosilicates with aqueous solutions. Report no.6. Interaction of vitreous sodium silicates and aluminosilicates with alkali solutions. Izv.AN SSSR. Otd.khim.nauk nc.3:403-410 My-Je 155.

(MLRA 8:9)

1. Institut khimii silikatov Akademii nauk SSSR (Silicates) (Alkalies)

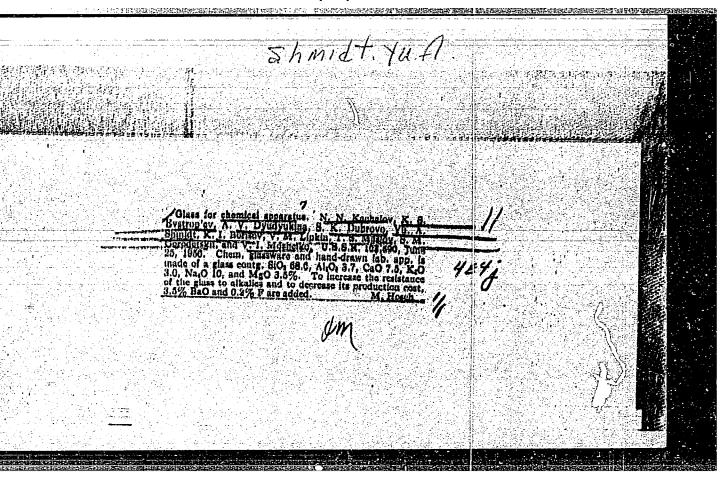
DUBROVO, S.K.; SHMIDT, Yu.A.

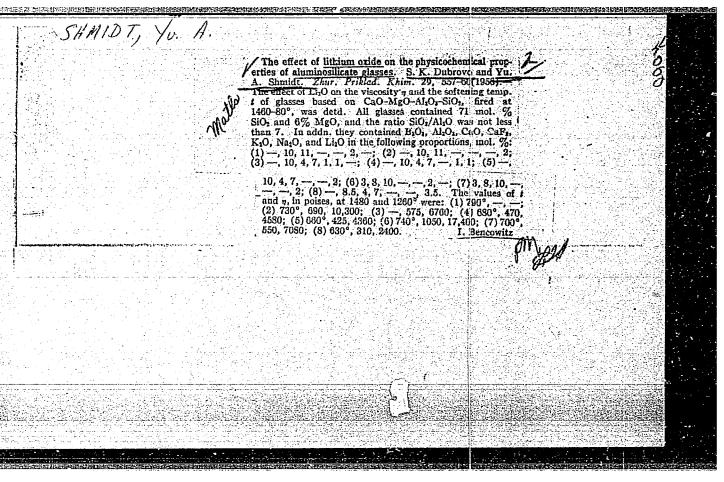
Interaction of vitreous sedium silicates and aluminesilicates with aqueous selutions. Report no.7. Interaction of vitreous sedium silicates and aluminesilicates with salt selutions.

Izv.AN SSSR.Otd.khim.mauk no.4:603-610 Jl-Ag 155. (MIRA 9:1)

1. Institut khimii silikatev Akademii nauk SSSR.
(Sedium silicates) (Glass manufacture--Chemistry)

SHMIDT, /	(a A		4	
7	Physicochemical characteristic ware. S. K. Dubrovo, S. S. Kar Steklo i Keram. 12, No. 10, 9-11 coeff. of linear expansion, softe acid resistance of No. 23, B-2, L. glass of the Pyrex type are given	(1906).—Water resistatice ening point, viscosity, and 5. Ts-32, and thermostable	1]:4E3U 3	
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Should K. A. USSR/Chemical Technology - Chemical Products and Their

H-7

Application. Ceramics. Glass. Binders. Concrete.

: Referat Zhur - Khimiya, No 1, 1958, 2045

Author

Abs Jour

: Dubrovo S.K., Shmidt Yu.A.

Inst Title : New Type of Heat-Resistant Glasses for Chemical-Laboratory

Equipment.

Orig Pub

: Zh. prikl. khimii, 1957, 30, No 4, 501-508

Abstract

Expansion of the fields of utilization of glass makes it necessary to develop new compositions of thermally and chemically stable glasses based on cheap and readily available raw materials. Glasses suitable for the manufacture of chemical-laboratory equipment were being developed on the basis of the CaO-MgO-Al203-SiO2 system. Alkali-free glasses of this system have a high tenacity and incipient softening temperature. To improve the characteristics of the glasses use was made of incorporation

Card 1/3

USSR/Chemical Technology - Chemical Products and Their
Application. Ceramics. Glass. Binders. Concrete.

H-7

Abs Jour : Ref Zhur - Krimiya, No 1, 1958, 2045

soda and spodumene concentrate (4-4.2% Li₂0). The glasses that were developed are characterized by an incipient softening temperature of 645-6800, linear expansion coefficient [at 20-4000] of 44-50 . 10-7, and crystallization range of 800-12000. Rate of crystallization is lower that that of Pyrex glass. In chemical stability the glasses are not inferior to Pyrex glass. Tenacity of the new glasses at temperatures above 13000 is lower than that of Pyrex glass while at lower temperatures it is higher. This facilitates the manufacture of the glass but renders more difficults its working using a glass blover torch.

Card 3/3

CIA-RDP86-00513R001549810004-9 "APPROVED FOR RELEASE: 08/23/2000 COLLEGE, SUCCESSION DESCRIPTION DE SEGUE SE SE COLLEGE DE LA COLLEGE DE SECUE DE SEGUE SE SE COLLEGE DE SECUE D

AUTHORS:

Korelova, A. I., Candidate of Technical SUV30-53-6-17/45

Sciences, Shmidt, Yu. A., Candidate of Chemical Sciences,

Kozlovskaja, Ye. I.

TITLE:

Works Carried out by Hungarian Scientists in the Field of Chemistry and Silicate-Technology (Raboty vengerskikh uchenykh

v oblasti khimii i tekhnologii silikatov)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 6,

pp. 92 - 94 (USSR)

ABSTRACT:

A group of collaborators of the Institute of Silicate-Chemistry of the AS USSR, together with the authors of this article, was sent to the Hungarian People's Democracy in December 1957 in order to become acquainted with the scientific works on the chemistry and technology of silicates (mainly glass and ceramics). These works were collected at the Institute of Chemical Research of the Hungarian AS, at the Central Research Laboratory for Building Materials, the Research Institute of the Chemical Heavy Industry, the professorial chairs of a number of universities,

as well as at the laboratories of industrial plants. In Budapest and Vesprem they had the opportunity of becoming acquainted with

Card 1/3

Works Carried out by Hungarian Scientists in the Field 501/50-58-6-17/45 of Chemistry and Silicate-Technology

the works by leading specialists in the field of the chemistry and technology of silicates:

- 1)I.Narai-Sabo, Institute of Chemical Investigations, investigates the relations between the structure and the properties of glass.
 2)B.Lend'yel, Professorial Chair for General and Inorganic Chemistry, investigates the electric conductivity as well as the dielectric properties of glass in dependence on both durability and structure.
- 5)E.Beretskiy, Professorial Chair of the Chemical-Technical College at Vesprem, investigates the composition and properties of various kinds of clay and kaolin occurring in Hungary for the purpose of replacing imported materials.
- 4) Ya. Grofchik, Institute of the Investigations of the Chemical Heavy Industry (Vesprem), investigates the process of the formation of mullite.
- 5)M. Korakh, Central Institute for the Investigation of Building Materials, investigates Hungarian minerals for the purpose of replacing imported raw-materials.
- 6)R.Moldvai, Technical College, produced and investigated ceramic masses in the Li₂0-Al₂0₃-Si0₂-system which have a negative thermal

Card 2/3

Works Carried out by Hungarian Scientists in the Field SO\\$\730-58-6-17/45 of Chemistry and Silicate-Technology

coefficient of expansion.
7)L.Erdei proposed new methods of chemical analysis.
8)I.Shayo, Institute of Metallurgy, proposed rapid methods of the analysis of ore, minerals, silicates, slags, refractory materials and alloys, this method is based on the determination of components without separating the same.

1. Chemistry--Hungary 2. Scientific research--Hungary

Card 3/3

CIA-RDP86-00513R001549810004-9 "APPROVED FOR RELEASE: 08/23/2000

SOV/80-32-4-7/47 5(2)

Dubrovo, S.K., Shmidt, Yu.A. AUTHORS:

Physical-Chemical Properties of Glass-Like Silicates and TITLE:

Alumosilicates of Lithium (Fiziko-khimicheskiye svoystva

stekloobraznykh silikatov i alyumosilikatov litiya)

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 742-749 PERTODICAL:

(USSR)

Lithium compounds are used in many silicate materials. The ABSTRACT: physical properties of glass-like silicates and lithium alumo-

silicates, like density and refraction index, are investigated here. Lithium-silicate glasses with Li20:Si02 ratios of 1:1

and 1:3 are melted at temperatures of 1,300°C, those with ratios of 1:4 and 1:5 at 1,450-1,500°C. All of these glasses are less viscous than the corresponding sodium glasses. In the system Li₂0-Si₀2 were obtained glasses with a lithium oxide content of 16,7 to 50 molar-%, and in the system Li₂0-Al₂0₃-Si₀2

glasses with a content of 16.7 to 32.8 molar-% and an aluminum oxide content of 1.6 to 25 moler-%. The refraction index is

determined by the immersion method with an error of ±0.003,

the density by the method of hydrostatic weighing. The lithium Card 1/2

SOV/80-32-4-7/47

Physical-Chemical Properties of Glass-Like Silicates and Alumosilicates of Lithium

silicates and alumosilicate glasses have a higher refraction index and a lower density compared to analogous sodium glasses. The density curve of lithium silicate glasses reaches a maximum at a SiO₂ content of 58-63 molar. The increase of the silicate content in the glasses raises the molar volume and reduces the refraction of the oxygen ion. It is assumed that aluminum in the glasses is quadricovalent / Ref 14.

There are 4 graphs, 4 tables and 14 references, 3 of which are

Soviet, 6 English 3 American, 1 German and 1 French,

SUBMITTED:

April 28, 1958

Card 2/2

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77627 SOV/80-33-2-2/52

AUTHOR:

Shmidt, Yu. A.

TITLE:

Reaction of Vitreous Lithium Silicates With Water and

Their Comparison With Sodium Silicates

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp 266-273

(USSR)

ABSTRACT:

This article deals with the study of vitreous lithium silicate reactions with water and a comparison of such with the reactions of corresponding sodium silicates. Previous articles on properties of vitreous lithium silicates are mentioned by the author. The experiments showed that amounts of the components which dissolve are smaller for lithium silicates than for corresponding sodium silicates. The greatest dissolution rate is observed for vitreous lithium metasilicate. It is the only lithium silicate studied that dissolved in water completely at 40° C. According to literature, crystalline metasilicates of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and in the state of sodium and lithium remarks and lithium states of sodium and lithium states

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Reaction of Vitreous Lithium Silicates With Water and Their Comparison with Sodium Silicates

77627 SOV/80-33-2-2/52

tetrahedron chains linked through alkali ions. Vitreous metasilicates are probably composed of similar but disordered chains. When such a glass is treated with water, a residual protective silicon dioxide layer cannot form on the surface since the alkali ions easily go into solution and as a result, silicon-oxygen chains depolymerize in the alkaline solution. Such a film starts to form already on $\text{Li}_2\text{O} \cdot 1.1 \, \text{SiO}_2$ and $\text{Li}_2\text{O} \cdot 1.2 \, \text{SiO}_2$, but in the case of sodium silicates the film only starts to appear on $\text{Na}_2\text{O} \cdot 1.7 \, \text{SiO}_2$ and shows noticeable retarding effect on $\text{Na}_2\text{O} \cdot 2 \, \text{SiO}_2$. For lithium silicates which contain 58 or more mole-percent SiO_2 leaching predominates. For sodium silicates leaching does not predominate until the SiO_2 content reaches 65 or more mole-percent. As the SiO_2 content increases, the difference between the silicates of lithium and sodium

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Reaction of Vitreous Lithium Silicates With Water and Their Comparison with Sodium Silicates

77627 SOV/80-33-2-2/52

decreases. The decomposition rate of vitreous silica was determined under similar conditions. Since vitreous silica does not react with water, its powder was treated with 0.001N LiOH and 0.002N NaOH. This introduced alkali oxides into the glass. The experiments showed that introduction of Na 0 into the glass weakens its silicon-oxygen skeleton to a greater degree than the introduction of an equivalent amount of Ligo. When similar experiments with vitreous lithium silicates and vitreous silica were conducted at 100° C, it was found that an increase in temperature causes a complete dissolution of Li₂0 ·1.2 SiO₂ glass, and brings Li₂0 · 1.4 SiO₂ glass near dissolution. For the rest of the glasses, leaching predominates. Composition has a relatively small effect on reaction rates of lithium glasses, but a considerable one on those of sodium glasses. A temperature rise has a much greater effect on the reaction rates of sodium glasses

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77627 SOV/80-33-2-2/52

than on those of lithium glasses. The properties of lithium silicate glasses can be explained by the smaller size of lithium ions and their greater reactivity with oxygen anions. There are 5 tables; 2 figures; and 8 references, 7 Soviet, 1 U.S. The U.S. reference is: G. Donnay, J. D. H. Donnay, Am. Mineral, 38, 3-4, 163 (1953). Institute of Silicate Chemistry, USSR Academy of Sciences (Institut khimii silikatov AN SSSR)

SUBMITTED:

April 17, 1959

Card 4/4

5.4120

78204 \$07/80-33-3-5/47

AUTHOR:

Shmidt, Yu. A.

TITLE:

Reaction Between Hyaline Lithium Aluminosilicate and

Water

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp 536-

539 (USSR)

ABSTRACT:

Continuing his and S. K. Dubrovo's studies on the subject (abstract 77627), the author determined the moles of R₂O, Al₂O₃, and SiO₂ dissolved in 120 ml water at 40° C within 6 hr and referred the found values to 1 cm² of

the surface of the dissolved hyaline lithium- or sodium aluminosilicate powder. The obtained values $\mathbf{n}_{R_{\odot}}\mathbf{0}$

 $n_{\text{Al}_2^{0}_3}$, and n_{SiO_2} gave the factors $\alpha = \frac{n_{\text{SiO}_2}}{m \cdot n_{\text{R}_2^{0}}}$ and

Card 1/5

 $\beta = \frac{^{n}Al_{2}O_{3}}{^{k+n}R_{2}O}$ of disintegration of the framework of

Reaction Between Hyaline Lithium Aluminosilicate and Water

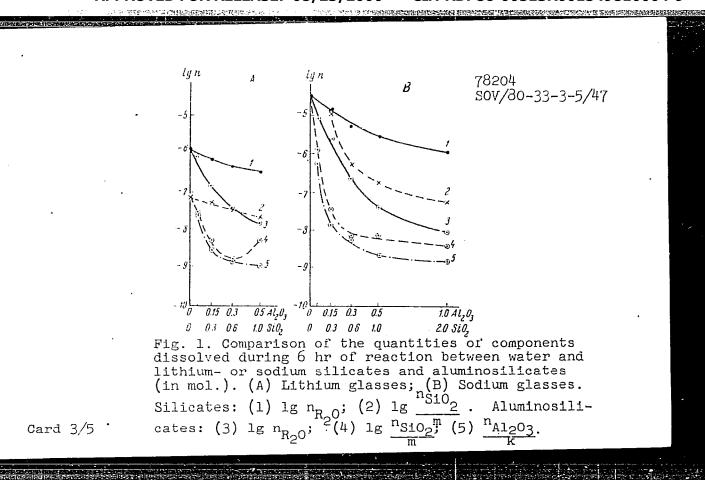
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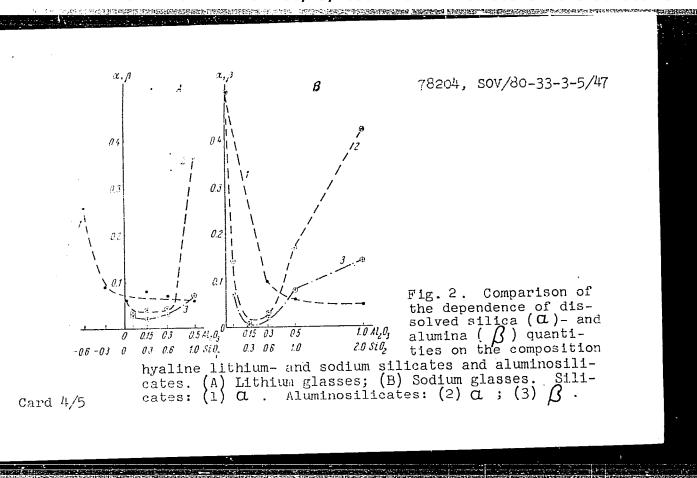
linked SiG_{4}^{4-} and AlO_{4}^{5-} tetrahedra, where m and k are the same as in the formula $\mathrm{R}_2\mathrm{O}\cdot\mathrm{kAl}_2\mathrm{O}_3\cdot\mathrm{mSiO}_2$ of the aluminosilicate. Li and Na aluminosilicates with four different m and k values were tested. The experimental data is illustrated in Figs. 1 and 2. Comparison with the author's preceding experiments revealed that powdering of the glasses reduces $\mathrm{n}_{\mathrm{Na}_2\mathrm{O}}$, increases $\mathrm{n}_{\mathrm{Al}_2\mathrm{O}_3}$, and

 $^{\rm n}$ SiO $_2$ $^{\rm n}$ Na $_2$ O decreases with increasing k more rapidly than with increasing m. Lithium aluminosilicate dissolves at a lower rate than sodium aluminosilicate, but the difference reduces with increasing k. Both aluminosilicates indicate that the degree of disintegration of the framework of linked SiO $_4$ tetrahedra, defined by $^{\rm cl}$ value, first drops with the increasing Al $_2$ O $_3$ content

of the glass until it reaches minimum

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Reaction Between Hyaline Lithium Aluminosilicate and Water

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at 0.15 to 0.3 mol ${\rm Al}_2{\rm O}_3$, then increases rapidly with the latter's further increase. ${\rm Al}_2{\rm O}_3$ dissolves to a lesser extent than ${\rm SiO}_2$ and, consequently, forms a surface film on the silicates being dissolved. The film hardly affects further dissolution of silicates. A higher silica content reduces the amount of dissolved oxides and the degree to which the framework of linked tetrahedra disintegrates. There are 2 figures; 1 table; and 7 Soviet references.

SUBMITTED:

April 17, 1959

Card 5/5

S/080/62/0355/003/020/024 D204/D302

ッケ スペルの AUTHORS:

Dubrovo, S. K., Lileyev, I. S., Mozheyko, V. I. and

Shmidt, Yu. A.

TITLE:

Glasses with increased heat stability for chemical

laboratory ware and apparatus

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 3, 1962,669-671

TEXT: The object of the present work was to prepare low-borate glasses with increased thermal shock resistance, applicable to the above uses. The range of compositions tried was (wt.%): SiO_2 72.5 - 75.0, Al_2O_3 6.0 - 7.8, B_2O_3 3.2 - 4.0, BaO_3 5.0, CaO_3 0 - 1.7, Na_2O_3 5.0 - 7.8, Li_2O_3 6.0 - 1.0, CaF_2 0 - 2.5. BaO_3 may be replaced by SrO_3 . The glasses were fused at 1500 - 1520°C and their coefficients of linear thermal expansion (α), softening temperature, tendency towards crystallization and chemical stability were measured. Two of these glasses, AT-24 (SiO_2 75.0, Al_2O_3 8.0, B_2O_3 3,2,

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S/080/62/035/003/020/024 D204/D302

Glasses with increased ...

BaO 4.8, CaF $_2$ 1.7, Na $_2$ O 6.8 and Li $_2$ O 0.5) and BT-24 (VT-24) (SiO $_2$ 72.6, Al $_2$ O $_3$ 6.8, B $_2$ O $_3$ 4.0, BaO 5.0, CaO 0.5, CaF $_2$ 2.5, Na $_2$ O 7.8, Li $_2$ O 0.75) were prepared on a larger scale in the Druzhnaya Gorka glassworks and were there shaped into articles. It was found that Classworks and were there shaped into articles. It was found that Classworks and were there shaped into articles. It was found that Classworks and were there shaped into articles. It was found that Classworks are stated in the Druzhnaya Gorka glassworks and the example of the control of the co

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Glasses with increased ...

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ratus. There is 1 table and 2 Soviet-bloc references.

SUBMITTED: May 30, 1961

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L 12424-65 EWT(m)/EWP(e)/EWP(t)/EWP(b) Pq-4 IJF(c) JD/WH ACCESSION NR: AP4047128 \$/0080/64/037/010/2299/2303 AUTHOR: Shmidt, Yu. A.; Alekseyeva, Z. D. Vitreous potassium, rubidium, and cesium silicates Zhurnal prikladnov khimii, v. 37, no. 10, 1964, 2299-2303 SOURCE : TOPIC TAGS: vitreous alkali silicate, alkali silicate glass; potassium silicate, rubidium silicate, cesium silicate, high silica glass, glass property, glass crystallization ABSTRACT: In the course of systematic investigation of the physicochemical properties of binary, alkali-silicate glasses the following glasses were synthesized: K20-SiO2 with 5-45 molZ K20, Rb20-SiO2 with 8-46 molZ Rb20, and Cs20-Si02 with 4-36 molZ Cs20. An additional reason for investigating these glass systems was that production of rubidium and cesium salts has increased in recent years. The glasses were prepared by melting pure alkali salta with amorphous silica at a maximum 1500-1650C. Comparatively easier melting was observed with rubidium and cesium than with potassium, sodium or lithium high-silica glasses. Therefore, Rb, 0 and Cs, 0 are the most efficient **Card** 1/3

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ACCESSION NR: AP4047128

fluxes for melting glasses with a high silica content. The index of refraction (determined by the immersion method) and the picnometric density of the glasses were found to increase in the sequence K-Rb-Cs. and also with increasing alkali oxide content. The density of the atomic packing in the silicon-oxygen skeleton and atomic weight are the main factors determining the magnitude of difference in the index of refraction and density between glasses with different alkali oxide. A linear increase in the coefficient of thermal expansion (α 20-400C) was observed with increased alkali oxide content. The coefficient of thermal expansion increased also with the increasing atomic number of the alkali metal, with the exception of cesium, since the coefficients of thermal expansion of cesium-silicate glasses are the same as those of potassium-silicate glasses. In all glass systems studied, the crystallization trate determined by the annualing and tempering method decreased with increasing SiO2 content to a minimum corresponding to tetrasilicate. The times and temperatures of crystallization are different in the three systems. The Rb20-SiO2 and Cs20-SiO2 glasses with 10 to 15 mol R20 do not crystallize. The softening points of the glasses were determined. Orig. art. has: 3 figures and 1 table.

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ACCESSION NR: AT4040549

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AUTHOR: Shmidt, Yu. A. (Deceased)

TITLE: Physicochemical properties of rubidium and cesium glass

SOURCE: Soveshchaniye po khimii redkikh elementov. Leningrad, 1961. Khimiya redkikh elementov (Chemistry of rare elements); doklady* soveshchaniya. Leningrad, Izd-vo Leningr. univ., 1964, 116-121

TOPIC TAGS: glass, glass physicochemical property, lithium glass, cecium glass, rubidium glass, borosilicate, glass plasticity, glass density, calcium glass, thallium glass

ABSTRACT: In order to clarify data in the literature on the effect of Rb₂O and Cs₂O on the viscosity and liquidus temperature of silicate glass, the author investigated the density, strength and plasticity of glass of the Rb₂O-B₂O₃-SiO₂ and Cs₂O-B₂O₃-SiO₂ systems, with a silica content higher than 80 mol%. Analysis shows that in the lithium-cesium series, the density of the glass increases, but the packing density of the silicon oxide (volume taken up by 1 gram-atom of oxygen) decreases. The breaking index of the glass

ACCESSION NR: AT4040549

increases in the order sodium-cesium, lithium glass occupying an anomalous position. The coefficient of linear expansion increases considerably from lithium to calcium glass, and then remains practically constant. The areas of glass formation in Rb20-B20-SiO2 and Cs20-B2O3-SiO2 are practically the same. At a B2O3 concentration of up to 8 mol% in rubidium and up to 4% in cesium systems, the border of the area of glass formation appears clear. The density and coefficient of linear expansion increase with increasing alkali content. When silicate is replaced by boron anhydride, the breaking index of rubidium glass first increases and then decreases. The softening temperature of these glasses was 630-750C. Further, when glass with a content of 89 mol% SiO2, 8% B2O3 and 3% of various alkali oxides was prepared, the number of bubbles decreased sharply from lithium to cesium to thallium glass. It was also shown that replacement of SiO2 by oxides of elements belonging to Groups II-IV (such as strontium, barium, lead and antimony) led to bubbleless glass in the laboratory. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

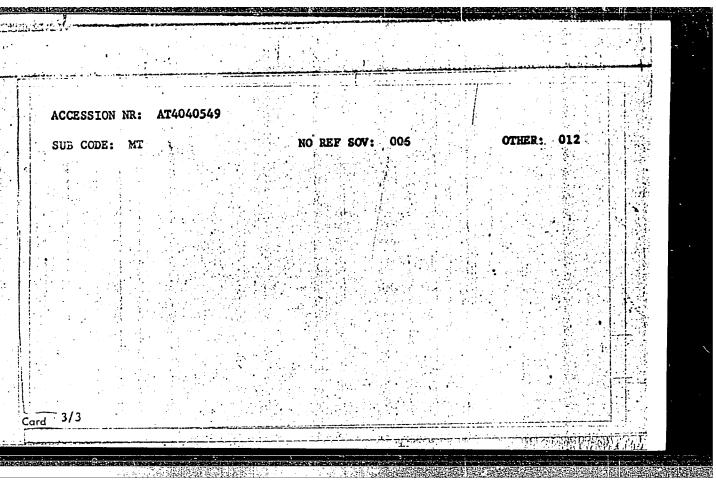
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YEOGROLA, A.G.; RAZARSKIIA. L.L.; RAMIDU, T.L.; REIASHEVA. Ye.V.; BEZERGERINO, L.P.

[New strains of lactic asjl bacceria for the leaven preparation] Revye abtarany relocated kirlyth bakterii rzhanykh zakvasak. Meskva, TSentra. in-a nauchme-takhna informatsii pishehevoi promyshi., 1953. J. p. (NIRA 1712)

17(1) AUTHOR:

Shmidt, Z. N.

SOV/20-126-3-66/69

TITLE:

Variation in the Permeability of Hematoencephalic and Hemato-ophthalmic Barriers at a Drop of Atmospheric Pressure (Izmeneniye pronitsayemosti gemato-entsefalicheskogo i gemato-oftal'-micheskogo bar'yerov pri ponizhenii atmosfernogo davleniya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3,

pp 696 - 698 (USSR)

ABSTRACT:

The biological barrier functions play a very important part in maintaining the constancy of the inner state of many vital organs. For the study of their permeability, various indicators including dyestuffs, electrolytes (Refs 1-5) as well as radioactive isotopes are used (Refs 6 & 8). As the central nervous system is sensitive to hypoxy (Refs 9-11), it was interesting to clarify whether the function of the hematoence-phalic barrier (HEB) is weakened. A vacuum was produced under an airtight glass bell. Radioactive phosphorus (Na₂HP³²O₄)

was used as an indicator, which was administered to guineapigs intraperitoneally, to rats intravenously. One hour later, the animals were killed by decapitation. It was found that P³²

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> was distributed rather irregularly in the organism of the rat after intravenous introduction. According to the quantity of sorbed P32, the organs constitute a series as follows: brain \(\) eye-chamber liquid \(\) serum \(\) blood \(\) heart \(\) liver \(\) kidney, \(\) in conformity with reference \(6 \)). In the test series with a decrease in pressure, the rats were placed into a pressure chamber immediately after the introduction of the isotope, where they stayed at an altitude of 4,6 and 12 km. They showed reactions of different kinds: unrest, then adynamia at 7-8 km, short breath, then followed cyanosis; at 11-12 km, the animals assumed a forced posture, lay down on their belly, and moved creeping about. Figure 1A shows that, with a decrease in atmospheric pressure, the permeability of the HEB and of the HOB increases. The degree of this increase depends on the degree of pressure drop. The increase of P32 in the brain and in the chamber liquid of rats in rising to various altitudes gives proof of the weakening in the function of the barrier systems. The guinea-pigs are less resistant to the lowering of atmospheric pressure. Already at an altitude of 8-10 km, they were in strong clonic convulsions. Besides, the

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Variation in the Permeability of Hematoencephalic and SOV/20-126-3-66/69 Hematoophthalmic Barriers at a Drop of Atmospheric Pressure

HEB and HOB are less permeable in case of the guinea-pigs than in case of the rats. As figure 1 shows, the permeability of the HEB and of the HOB increases. At an altitude of 10 km, it increases considerably. Thus, the disturbances in the functions of the biological barriers in rising are higher for the guinea-pigs than for the rats. G. Ye. Vladimirov (Ref 16) found no increase in permeability of the HEB for P³² in rats because he made his investigations a long time after the introduction of the isotope. There are 1 figure and 17 references, 15 of which are Soviet.

ASSOCIATION: Odesskiy gosudarstvennyy meditsinskiy institut im. N. I. Pirogova (Odessa State Medical Institute imeni N. I. Pirogov)

PRESENTED: February 25, 1959, by L. S. Shtern, Academician

SUBMITTED: February 20, 1959

Card 3/3

S/020/60/132/05/68/069 B011/B002

AUTHOR:

Shmidt, Z. N.

TITLE:

On the Mechanism of Variations in the Permeability of Biological Barriers With a Drop in Atmospheric Pressure

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5,

pp. 1216-1218

TEXT: The author proved in an earlier paper (Ref. 1) that a drop in atmospheric pressure gives rise to an appreciable increase in the permeability of the hemato-encephalic and hemato-ophthalmic barrier for 32

P³². Here, the author wanted to clarify the causes underlying the disturbance of the permeability of barrier structures at high altitudes. It was necessary to find out in how far these disturbances depended on the drop of barometric pressure and to what extent on the resulting hypoxia For this purpose, the author carried out three series of experiments: (1) a brief ascent of rats to an altitude of 12 km; (2) an equal rarefaction of air in a chamber, but with oxygen supply; (3) rats in an

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On the Mechanism of Variations in the Permeability of Biological Barriers With a Drop in Atmospheric Pressure S/020/60/132/05/68/069 B011/B002

airtight vessel, where they gradually showed signs of asphyxia. The author used $Na_2HP^{32}O_4$ as an indicator, which was injected intravenously in a dose of 50000 decays per 1 g. 1-2 mg of phosphorus per kg served as ballast. The animals were decapitated 1 h after the isotope introduction. The barrier permeability was established from the P^{32} amount in the brain and in the chamber liquid as compared with the amount in the blood serum, and was expressed in per cents (relative activity). The radioactivity of individual brain segments and of the chamber liquid was determined on the E-2 (B-2) apparatus by means of the AC-2 (AS-2) counter. It was established in the control series that the radioactivity of the individual brain segments of normal rats is not uniform. In experiments with reduced pressure it was found that the permeability of both barriers (HEB and HOB) was considerably increased. In the second series of experiments, the P³² amount in the brain and in the chamber liquid was considerably larger. The relative activity of the hypothalamus was 74%, that of the cerebellum, 50%, and that of the forebrain, 41%. In the hypophysis, the P^{32} content

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was almost unchanged and amounted to 760% of that in the blood serum. The HOB permeability was also increased: in the chamber liquid from 53 to 105%. The pressure in the third series corresponded to an altitude of 12 km (145 torr). The oxygen content fluctuated between 70 and 85%. No change was proven here to occur in the barrier permeability. Hence, the oxygen addition prevents disturbances of permeability (Table 1). Further, it may be seen that due to a rapid drop of atmospheric pressure the relative activity of the chamber liquid is almost doubled. In the removal of hypoxia, the permeability of HOB is not increased in this case. The passage of the acid phosphate ion into the brain tissue and into the chamber liquid is possibly brought about by a shift of the acid-base equilibrium at high altitudes. The oxygen addition reduces this shift of the acidic-alkaline equilibrium. It was proven in the third series that in asphyxia and in $\hat{\text{CO}}_2$ concentration, the activity of various brain sections is several times reduced. Asphyxia reduces the permeability of HEB for P32 considerably. The chamber liquid differs greatly from the brain with respect to the P^{32} content. The author mentions Card 3/4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549810004-9"

On the Mechanism of Variations in the Permeability of Biological Barriers With a Drop in Atmospheric Pressure s/020/60/132/05/68/069 B011/B002

papers by E. L. Romel' and K. A. Gerchikova (Ref. 16). There are 1 table and 17 references: 14 Soviet, 2 German, and 1 Danish.

ASSOCIATION: Odesskiy gosudarstvennyy meditsinskiy institut im. N. I.

Pirogova (Odessa State Medical Institute imeni N. I.

Pirogov)

PRESENTED: August 20, 1959, by L. S. Shtern, Academician

SUBMITTED: August 20, 1959

V

Card 4/4

SHMIDT, Z. N.

Cand Med Sci - (diss) "Penetrability of hemato-encephalitic and hemato-ophthalmological barriers in the lower of atmospheric pressure. (Experimental study)." Stalino, 1961. 12 pp; (Stalinskiy Med Inst imeni A. M. Gor'kiy); 270 copies; price not given; (KL, 6-61 sup, 242)

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SHMIDT, Z. V.

Shmidt, Z. V. -- "The Effect of Caffeine on the Salivary Glands of the Dog." Leningrad State Pedagogical Inst imeni A. I. Gertsen. Chair of the Anatomy and Physiology of Man and Animals. Leningrad, 1956. (Disseration For the Degree of Candidate in Biological Sciences).

So: Knizhnaya Letops', No. 11, 1956, pp 103-114

SHMIDT-ROZHDESTVENSKAYA, Ye.D.

Blood coagulation and resistance to anticoagulants in patients with rheumatic heart defects. Terap.arkh. 31 no.12:76-80 D 159.

(MIRA 13:4)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. B.P. Kushelevskiy) Sverdlovskogo meditsinskogo instituta.

(RHEUMATIC HEART DISEASE ther.)

(ANTICOAGULANTS ther.)

SHMIDT-ROZHDESTVENSKAYA, Ye.D., kand.med.nauk (Sverdlovsk)

Diagnosis and treatment of embolic pulmonary infacts. Klin.med. 39 no.4:23-29 '61. (MIRA 14:4)

1. Iz fakulitetskoy terapevticheskoy kliniki Sverdlovskogo meditsinskogo instituta i kardiologicheskoy gruppy usileniya pri SIKF (zav. i nauchnyy rukovoditeli - zasluzhennyy deyateli nauki prof. B.P. Kushelevskiy).

(PUIMONARY EMBOLISM)

- 1. SHMIDT-SHKIYAR, S. N. Eng.
- 2. USSR (600)
- 4. Plastering
- 7. Experience with inside plastering in the construction of the skyscraper on Smolensk Square, Stroi. prom 30 No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

SHMIDTOV, A.I.

Age groups and growing speed of the pike perch (Lucioperca lucioperca L.) in the lower Kama and middle Volga. Izv.Kazan.fil.AN SSSR.Ser. biol.i sel'khoz.nauk no.1:107-139 '49. (MLRA 10:2) (Volga River--Perch)

(SHMIDTOV, A.I.

Age groups and growing speed of the pike (Esox lucius L.) in the lower Kama. Izv.Kazan.fil.AN SSSR.Ser.biol.i sel'khoz.nauk no.1: 141-158 '49. (MLRA 10:2) (Kama--Pike)

SHMIDTOV, A.I.

Role and significance of predatory fishes in waters of the Tatar
A.S.S.R. and outlook for raising them in Kuybyshev Reservoir. Uch.
zap.Kaz.un. 113 no.1:179-194 '53.

(Tatar A.S.S.R..-Fishes)

SHMIDTOV, A.I.

Specific composition of fish stocks and their numbers in the Kuybyshev Reservoir area. Uch.zap.Kaz.un. 116 no.1:221-226 '55. (MLHA 10:5)

1.Kafedra zoologii pozvonochnykh. (Tatar A.S.S.R.--Fishes)

SHMIDTOV, A.I.

Fishes of the Kovali lakes and their characteristics. Uch. zap. Kaz. un. 117 no.9:256-261 '57. (MIRA 13:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina. Kafedra zoologii pozvonochnykh.

(Tatar A.S.S.R.--Fishes)

SHMIDTOV, A.I.

Possibilities for adding wild and pond carp and whitefish to the fish stocks of the Kovali lakes. Uch. zap. Kaz. un. 117 no.9:262-267 (MIRA 13:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina. Kafedra zoologii pozvonochnykh. (Tatar A.S.S.R.--Fishes)

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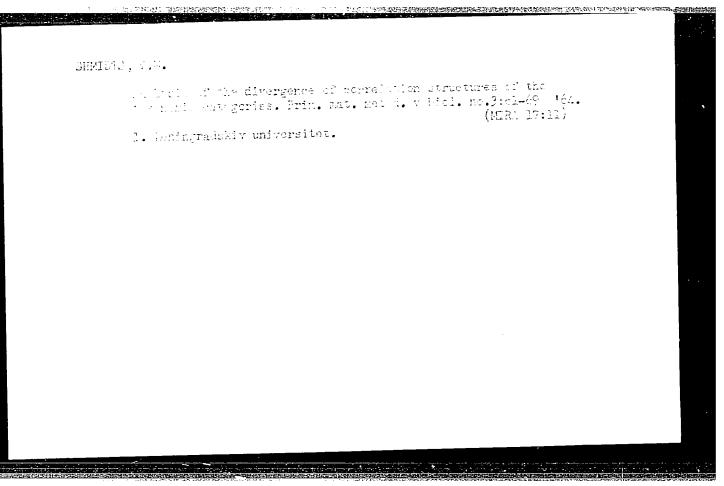
Department of Vertebrate Zoology. Uch.zap.Kaz.un, 120 no.3:65-74 160.

(MIPA 14:6)

(Tatar A.S.S.R.--Zoological research)

SHMIDTS, Sergey Viktorovich; CHEPELKINA, L.A., red.

[Safety techniques in hydrological work] Tekhnika bezcpasnosti pri gidrologicheskikh rabotakh. Leningrad, Gidrometeoizdat, 1964. 170 p. (MIRA 17:9)



CIA-RDP86-00513R001549810004-9 "APPROVED FOR RELEASE: 08/23/2000

SHMIGHL

AUTHOR:

Shmigal'skiy, V.N., Engineer

3-4-12/28

TITLE:

More Independence, closer to Production (Bol'she samo-stoyatel'nosti, blizhe k proizvodstvu)

PERIODICAL:

Vestnik vysshey shkoly, April 1957, # 4, p 53-55 (USSR)

ABSTRACT:

The Party Bureau of the Mine Construction Faculty of the Kemerovo Mining Institute attributes the poor progress of some students in their studies to too much home work. It proved that for the assigned outside work 8-9 hours daily, including days off, were required. The author suggests reducing the weekly compulsory work hours from 36 to 20-24 hours, and deals in detail with such measures taken in previous years, in the course "Construction Materials". He then discusses the important role which practical experience plays in training students to work independently. He mentions the relations which are being established between the Chair on Construction Matters and the Chair of Foreign Languages, pointing out that the possibilities of using the latest foreign data on construction materials and construction are thus being utilized and that this increases student interest in

the study of foreign languages.

AVAILABLE:

ASSOCIATION: Kemerovo Mining Institute (Kemerovskiy gornyy institut)

Library of Congress

SHMIGAL'SKIY, V.N., aspirant

Evaluating the intensity of vibration in packing concrete mixes. Nauch.dokl.vys.shkoly; stroi. no.2:165-172 '58. (MIRA 12:1)

(Vibrated concrete)

DESOV, A.Ye., prof., doktor tekhn.nauk; SHMIGAL SKIY, V.N., inzh.; SOVALOV, I.G., kand.tekhn.nauk; TATAKINA; T.A.; inzh.; MUNITS, A.P., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Instruction on the time and intensity of vaccation and on the selection of concrete mixes of the most efficient placing qualities] Instruktsiia po prodolzhitel nosti i intensivnosti vibratsii i po podboru sostava betonnoi smesi povyshennoi udoboukladyvaemosti. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 44 p. (MIRA 13:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo. 2. Laboratoriya tyazhelykh betonov Nauchno-issledovatel'skogo institute 'salora i zhelezobetona Akademii stroitel'stva i arkhitektury SCLA (for Desov, Shmigal'skiy).
3. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Sovalov, Lalakina).

(Vibrated concrete)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549810004-9"

SHMIGAL'SKIY, V.N., inzh.

Estimating the equivalence of vitrations of various frequencies.

Trudy NIIZHB no.11:186-209 '59. (MIRA 13:6)

(Vibrated concrete)

SHMIGAL'SKIY, V.N., inzh.

Multiple-frequency vibration. Trudy NIIZHB no.21:103-112 '61.

(MIRA 14:12)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR, g. Rostov-na-Donu.

(Vibrated concrete)

SHMIGAL'SKIY, V.N., kand.tekhn.nauk; ISHCHENKO, M.T., inzh.

New method of determining the gross content of pulverulent and clayey (Silt) particles in sand used for construction purposes. Sbor. trud. NII po stroi. ASiA [Rost.] no.6:147-152 '62. (MIRA 17:9)

SHNIGAL'SKIY, V.N., kand.tekhn.nauk

Effect of the forms of the vibrations and the hellow-forming insertion pieces on the degree of compaction of concrete under three-dimensional vibration. Trudy NIIZHB no.29:98-116 '62. (MIRA 15:11)

(Vibrated concrete)

DESOV, A.Ye., doktor tekhn.nauk, prof.; SHMIGAL'SKIY, V.N., kand. tekhn.nauk

Effect of the phase angle between high and low frequencies on the
efficiency of compaction. Trudy NIIZHB no.29:117-129 '62.

(WIRA 15:11)

(Vibrated concrete)

SHMIGAL'SKIY, V.N., kand.tekhn.rauk

Experimental data on the compaction of concrete mixe in forms not attached to vibration tables. Trudy NIIZHB no.33:188-196
164. (MIRA 18:2)

1. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta.

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SHMIGEL' Aleksandr Dmitriyevich[Shmyhel',0.D.]; KUROCHKIN, F.I., red.; SMAFETA, S.M., tekhn. red.

[Uniform journal-voucher accounting system in industry] IEdyna zhurnal'no-orderna forma bukhhalters'kono obliku v promyslovosti. Kyiv, Derzhtekhvydav, URSR, 1962. 178 p. (MIRA 15:8) (Accounting)

IVANOV, V.M.; KACHAYEVA, A.S.; SHMIGEL', L.M.; GERSHOVICH, F.S.; SKVORTSOVA, L.F.

Stock dyeing of viscose fibers. Khim. volok. no.3:58 '65. (MIRA 18:7)

1. Cherkasskiy zavod iskusstvennogo volokna.

BASOV. A.M., kand.tekhn.nauk; IZAKOV, F.Ya., inzh.; SHMIGEL', V.N., inzh.; YASHOV, G.A., inzh.

Grain cleaning in the electric field. Mekh.i elek.sots. sel'-khoz. 17 no.5:25 '59.

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.

(Grain--Cleaning)

POTANINA, N.D.; SHMIGEL', V.N.

Effect of a high-voltage electrostatic field on the pollen of some fruit crops. Bot.zhur. 45 no.2:266-272 F '60. (MIRA 13:6)

l. Chelyabinskiy pedagogicheskiy institut i Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva. (Plants, Effect of electricity on) (Pollen) (Fruit culture)

BASOV, A.M.; SHMIGEL', V.N.

Measuring the specific inductive capacitance of separate grains.

[NIRA 14:11]

[Zm.tekh. no.10:46-48]

(Electric measurements)